

1 1. A noninvasive transdermal system for detecting an analyte in interstitial fluid
2 extracted from or underneath the skin of a subject, said noninvasive transdermal system
3 comprising:

4 a dry chemistry component for interacting with the analyte, said dry chemistry
5 component having a sensitivity which enables it to detect the analyte extracted from interstitial
6 fluid, and

7 a wet chemistry component for transferring the analyte from the interstitial fluid
8 in or underneath the skin to said dry chemistry component in an amount sufficient so that said
9 dry chemistry component can detect the analyte.

10 2. A noninvasive transdermal system of claim 1 where said wet chemistry
11 component is a gel.

1 3. A noninvasive transdermal system of claim 2 wherein said gel comprises carbopol
2 and propylene glycol.

3 4. A noninvasive transdermal system of claim 2 wherein said gel consists essentially
4 of 1% carbopol and 10% propylene glycol.

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1 5. A noninvasive transdermal system for detecting an analyte in a biological fluid
2 extracted from or underneath the skin of a subject, said noninvasive transdermal system
3 comprising:

4 a dry chemistry component for interacting with the analyte to detect the analyte,
5 said dry chemistry component having a sensitivity which enables it to detect the analyte extracted
6 from interstitial fluid, and what provides basis?

7 a wet chemistry component for transferring in about 15 minutes or less the analyte
8 from the interstitial fluid in or underneath the skin to said dry chemistry component in an amount
9 sufficient, so that said dry chemistry component can detect the analyte, said wet chemistry
10 component consisting essentially of a gel and a skin permeate enhancer.

1 6. A noninvasive transdermal system of claim 5 wherein the biological fluid is further
2 interstitial fluid. lim. 10 min?

1 7. A noninvasive transdermal system of claim 5 wherein the analyte is glucose.

1 8. A noninvasive transdermal system of claim 5 wherein said wet chemistry
2 component is a gel which includes carbopol, and said skin penetrant is propylene glycol.
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$X = 1, 2, 5-7$
 $Y = 3, 4, 8 - \text{obv to optimize}$